

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-74 (Canceled)

Claim 75 (New): An isolated polynucleotide selected from the group consisting of:

(a) a polynucleotide that comprises a nucleotide sequence as set forth in SEQ ID NO: 3, 5, 7 or 9,

(b) a polynucleotide that encodes a polypeptide having an amino acid sequence as set forth in SEQ ID NO: 4, 6, 8 or 10,

(c) a polynucleotide that hybridizes under stringent conditions to a polynucleotide comprising a nucleotide sequence as set forth in SEQ ID NO: 3, 5, 7 or 9, wherein the stringent conditions comprise washing in 0.1 X SSC and 0.1% SDS at 65°C, and

(d) a polynucleotide that shows at least 95% identity to a nucleotide sequence as set forth in SEQ ID NO: 3, 5, 7 or 9,  
or a fragment of said polynucleotide;

wherein said polynucleotide or said polynucleotide fragment encodes a polypeptide (a) which suppresses or promotes the aggregation of amyloid or (b) which is an immunogenic polypeptide.

Claim 76 (New): The polynucleotide of Claim 75 which comprises SEQ ID NO: 3.

Claim 77 (New): The polynucleotide of Claim 75 which comprises SEQ ID NO: 5.

Claim 78 (New): The polynucleotide of Claim 75 which comprises SEQ ID NO: 7.

Claim 79 (New): The polynucleotide of Claim 75 which comprises SEQ ID NO: 9.

Claim 80 (New): The polynucleotide of Claim 75 which encodes a protein having the amino acid sequence set forth in SEQ ID NO: 4.

Claim 81 (New): The polynucleotide of Claim 75 which encodes a protein having the amino acid sequence set forth in SEQ ID NO: 6.

Claim 82 (New): The polynucleotide of Claim 75 which encodes a protein having the amino acid sequence set forth in SEQ ID NO: 8.

Claim 83 (New): The polynucleotide of Claim 75 encodes a protein having the amino acid sequence set forth in SEQ ID NO: 10.

Claim 84 (New): The polynucleotide of Claim 75 which is a polynucleotide that hybridizes under stringent conditions to a polynucleotide comprising a nucleotide sequence as set forth in SEQ ID NO: 3, 5, 7 or 9, wherein the stringent conditions comprise washing in 0.1 X SSC and 0.1% SDS at 65°C.

Claim 85 (New): The polynucleotide of Claim 75 which is a polynucleotide that shows at least 95% identity to a nucleotide sequence as set forth in SEQ ID NO: 3, 5, 7 or 9.

Claim 86 (New): An isolated fragment of the polynucleotide of Claim 75, wherein said polynucleotide fragment encodes a polypeptide (a) which suppresses or promotes the aggregation of amyloid or (b) which is an immunogenic polypeptide.

Claim 87 (New): A polynucleotide consisting of at least 15 consecutive nucleotides of the polynucleotide of Claim 75, or consisting of at least 15 consecutive nucleotides of the full complement of the polynucleotide of Claim 75.

Claim 88 (New): The polynucleotide of Claim 75 which encodes a polypeptide which suppresses the aggregation of amyloid.

Claim 89 (New): The polynucleotide of Claim 75, which encodes a polypeptide which promotes the aggregation of amyloid.

Claim 90 (New): The polynucleotide of Claim 75, which encodes an immunogenic polypeptide.

Claim 91 (New): A vector comprising the polynucleotide of Claim 75.

Claim 92 (New): The vector of Claim 90 which is an expression vector.

Claim 93 (New): A transfected host cell comprising the polynucleotide of Claim 75.

Claim 94 (New): The transfected host cell of Claim 93 which is a prokaryotic cell.

Claim 95 (New): The transfected host cell of Claim 93 which is *Escherichia coli*.

Claim 96 (New): The transfected host cell of Claim 93 which is a eukaryotic cell.

Claim 97 (New): The transfected host cell of Claim 93, which is selected from the group consisting of *S. cerevisiae*, an HEK293 cell, a murine L929 cells, and a CHO cell.

Claim 98 (New): A transfected host cell comprising the vector of Claim 91.

Claim 99 (New): A method for making a polypeptide comprising:  
expressing the polynucleotide of Claim 75 under conditions suitable for  
expression of the polypeptide that it encodes, and  
recovering the polypeptide.

Claim 100 (New): A method for detecting Alzheimer's disease, comprising:

- (a) measuring the expression of a polynucleotide according to Claim 75,
- (b) comparing the measurement obtained in (a) with that obtained when the polynucleotide is expressed in healthy subjects and detecting a change in expression, and
- (c) linking Alzheimer's disease with said change in expression of the polynucleotide.

Claim 101 (New): A method of screening for a compound that regulates expression of a peptide encoded by a polynucleotide according to Claim 75, comprising:

(a) contacting a candidate compound with a cell, wherein a vector has been introduced into said cell, said vector comprising:

(i) an expression regulatory region of a gene comprising a nucleotide sequence selected from the group consisting of SEQ ID NO. 3, SEQ ID NO. 5, SEQ ID NO. 7, and SEQ ID NO. 9, and,

(ii) a reporter gene operably linked downstream of the expression regulatory region,

(b) measuring the presence of the reporter gene, and,

(c) selecting the candidate compound that increases or decreases the reporter activity measured in step (b) when compared to the control.

Claim 102 (New): A composition comprising the isolated polynucleotide of Claim 75 and a pharmaceutically acceptable carrier or vehicle.